

IN THE CLAIMS

Please amend the claims as follows:

Claims 1-21 (Canceled).

Claim 22 (New): A capacitor comprising:

a separating layer,

wherein the separating layer is present on a carrier and is adhered thereto and is a porous inorganic nonelectroconductive coating which comprises particles of compounds of the elements Al, Si and/or Zr that are adhered to each other and to the carrier by an inorganic adhesive.

Claim 23 (New): A capacitor according to claim 22, wherein the carrier comprises woven or non-woven polymeric or glass fibers.

Claim 24 (New): A capacitor according to claim 23, wherein the carrier is flexible and less than 50 μm in thickness.

Claim 25 (New): A capacitor according to claim 23, wherein the polymeric fibers are selected from fibers of polyacrylonitrile, polyamide, polyester and/or polyolefin.

Claim 26 (New): A capacitor according to claim 22, wherein the carrier is an electrode configured for use as an electrode in a capacitor.

Claim 27 (New): A capacitor according to claim 26, wherein the carrier is a porous electrode configured for use as an electrode in a capacitor.

Claim 28 (New): A capacitor according to claim 26, wherein the separating layer comprises metal oxide particles having an average particle size greater than the average pore size of the pores of the electrode that are adhered together by metal oxide particles which have a particle size which is smaller than the pores of the porous electrode.

Claim 29 (New): A capacitor according to claim 26, wherein the separating layer has a thickness of less than $100 D_g$ and not less than $1.5 D_g$.

Claim 30 (New): A capacitor according to claim 29, wherein the separating layer has a thickness of less than $20 D_g$ and not less than $5 D_g$.

Claim 31 (New): A capacitor according to claim 28, wherein the metal oxide particles having an average particle size greater than the average pore size of the pores of the porous positive electrode are Al_2O_3 and/or ZrO_2 particles.

Claim 32 (New): A capacitor according to claim 28, wherein the metal oxide particles having an average particle size less than the average pore size of the pores of the porous positive electrode are SiO_2 and/or ZrO_2 particles.

Claim 33 (New): A capacitor according to claim 28, wherein the metal oxide particles having an average particle size greater than the average pore size of the pores of the porous electrode have an average particle size of less than $10 \mu m$.

Claim 34 (New): A capacitor according to claim 22, wherein the separating layer has a porosity in a range from 30% to 70%.

Claim 35 (New): A capacitor according to claim 22, wherein the inorganic adhesives are selected from oxides of the elements Al, Si and/or Zr.

Claim 36 (New): A capacitor according to claim 22, wherein the inorganic adhesive comprises particles having an average particle size of less than 20 nm and was produced via a particulate sol or comprises an inorganic network of the oxides which was produced via a polymeric sol.

Claim 37 (New): A capacitor according to claim 22, further comprising an inorganic network comprising silicon, the silicon of the network being bonded via oxygen atoms to the oxides of the inorganic coating and via an organic radical to the carrier which comprises polymeric fibers.

Claim 38 (New): A capacitor according to claim 22, wherein the adhered particles of the compounds of the elements Al, Si and/or Zr that are present in the separator have an average particle size in a range from 0.5 to 10 μm .

Claim 39 (New): A capacitor according to claim 22, wherein the capacitor comprises a nonaqueous electrolyte selected from propylene carbonate, N,N-dimethylformamide, γ -butyrolactone or acetonitrile as solvent and also tetraalkylphosphonium or tetraalkylammonium salts as conducting salts.

Claim 40 (New): A capacitor according to claim 22, wherein the separating layer is obtainable by applying a suspension to the carrier and solidifying the suspension on and in the carrier by at least single heating, the suspension comprising a sol as inorganic adhesive and at least one fraction of oxidic particles selected from the oxides of the elements Al, Zr and/or Si.

Claim 41 (New): A capacitor according to claim 40, wherein the suspension is heated on the carrier at a temperature in the range from 170 to 280°C for from 0.5 to 10 minutes.

Claim 42 (New): The use of a capacitor according to claim 22 as a store for electrical energy in vehicles.